O W N E R ' S M A N U A L

MM104 10" Subwoofer

MM124 12" Subwoofer

The Bass Master Commands You!

Please inspect each loudspeaker carefully. Notify your Polk Audio dealer if you notice any damage or missing items. Keep the carton and packing material. They will do the best job of protecting your speakers if they need to be transported.

Important Information About Warranty & Installation

Subwoofers work best when installed in an enclosure of the proper size. Recommended subwoofer enclosure sizes are provided in the table below. For custom subwoofer enclosures visit http://www.polkaudio.com/car/toolbox/subboxplans.

Recommended Enclosure Sizes:

10" Subwoofer — 0.66 ft³ sealed
12" Subwoofer — 0.88 ft³ sealed

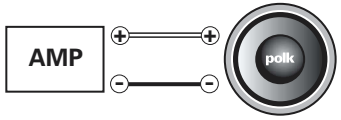
Be careful. Subwoofer enclosures need to be installed in places where they can operate safely and not endanger the occupants of the automobile. Do not install your subwoofer enclosure on your car's rear deck. Do not install your subwoofer enclosure on your front dashboard or in your passenger seat. To get the safest, best performance from your Polk/MOMO Subwoofer, we recommend that you put its enclosure in your trunk. If you have any questions about these issues, please call Polk Audio's friendly Customer Service Department. Polk Audio Customer Service is available from 9am—6pm, EST, Monday through Friday, at 800-377-7655 (US & Canada only), outside the US please call 410-358-3600.

Connecting Your Polk/MOMO Subwoofers

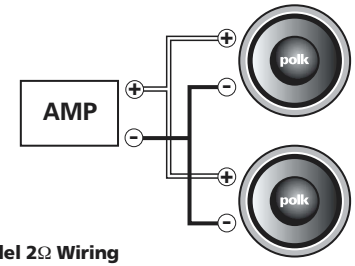
5-way binding post connectors are located on the back of the subwoofer. For a bare wire connection, strip 1/2 inch (12.7mm) of insulation from each of the two conductors of your wire to expose the bare metal and twist each of the conductors into a single unfrayed strand (so you have two unfrayed strands). Note that one of the terminals on the woofer is red (+) and the other is black (-). Make certain that you connect the wire from the red terminal of your amplifier to the red terminal on the woofer and the wire from the black terminal of your amplifier to the black terminal on the woofer. Most wire has some indicator (such as color-coding, ribbing or writing) on one of the two conductors to help you maintain consistency. To connect bare wire to the binding post, unscrew the nut and insert the bare wire into the hole near the base of the binding post. Do not insert the insulated part of the wire into the hole as this will not give you a good connection. Twist the nut back down the binding post until it firmly meets the wire. Do not over tighten.

Wiring Diagrams For Polk/MOMO Subwoofers

Please make certain that your amplifier is rated to carry the specified load.



Single 4Ω Wiring



Parallel 2Ω Wiring
Two 4Ω speakers will present a 2Ω load. Make sure that your amplifier is 2Ω stable when configured in the bridge mode. Consult your amplifier's owner's manual before wiring in this configuration.

Break It In

Your Polk/MOMO Subwoofer will achieve even greater performance once it is thoroughly broken-in. To break in your new sub, play 20 to 30 hours of music at moderate levels. Get more information online at Polk University: http://www.polkaudio.com/car/faqad/index.php

Amplifier Power Requirements For Polk/MOMO Subwoofers

With one subwoofer we recommend an amplifier with a power rating of at least 200-Watts (x 1 in bridged mode) to sufficiently drive this woofer. If you have a noisy car or intend to play your system at loud listening levels, more power is necessary to achieve the best performance. More power is always better. Consult your Polk Audio dealer for specific recommendations.

Optimal Crossover Setting

We recommend using an active crossover with a 12 to 18dB per octave low pass filter slope, and setting it to an initial setting of 80 to 90 Hz as a good starting point. This is an optimal crossover setting on most vehicles.

Inverting Phase

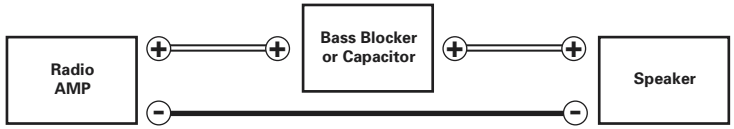
Depending on the placement of your subwoofer enclosure and associated components, it may be necessary to invert the phase of one or another of your system's connections in order to gain better subwoofer/mid-range blending. Inverting the phase simply means switching the positive connections with the negative connections at the amplifier. If you choose to do this, invert the phase of only one set of speakers (either your mains, or your subs, never both).

Safe Limits Of Operation

Your Polk/MOMO Subwoofer is made with the highest quality materials for years of trouble-free performance. However, damage to loudspeakers can occur when an amplifier, regardless of its wattage, is made to play at higher listening levels than its power can clearly produce (usually beyond the "1 to 2 o'clock" position on the volume control). This results in very high levels of audible distortion, originating in the amplifier, which adds a harsh, gritty sound to the music. Contrary to popular belief, a speaker is more likely to be damaged by trying to get too much volume from a low-powered amp than from a high-powered one. Hear distortion? Turn it down. Contact Polk Customer Service 800-377-7655 (9am—6pm, EST, Monday through Friday).

Low Frequency Cut-Off For Mid-Range Speakers In Systems With Subwoofers

Now that you have a subwoofer in your system, you may want to decrease the amount of bass going to your mid-range speakers. This will get you better mid-range sound and increase the power handling. There are two ways to roll off the bass before it gets to your mid-range speakers. One way is to use a "bass blocker," a capacitor placed in series with the speaker input. Bass blockers are installed in series, one end connected with the positive lead from your amplifier and the other end connected to the positive lead of each of your speakers. Bass blocker capacitors (200 microfarad @ 100volts, non-polarized) are available at any RadioShack or parts supply house. The other route is to use an electronic crossover device that allows filtering below 100Hz or so. Find these devices at your authorized Polk Audio dealer.



Tech Assistance Or Service—Not Hearing Anything? Read This:

If, after following these hookup and installation directions, you experience difficulty, please double-check all wire connections.

Make certain your electronic equipment is operating correctly by hooking up another speaker to the speaker output. For example, if you are not getting sound from the left channel speaker, connect the right channel speaker to the left output. If you still get no sound from that side, the problem is in your amp or source electronics. Should you isolate the problem to the speaker, contact the authorized Polk Audio dealer where you bought your speakers. Authorized Polk Audio dealers are the best source for advice and assistance.

Polk Audio's Customer Service Department is available from 9am—6pm, EST, Monday through Friday, at 800-377-7655 (US & Can only, outside the US call 410-358-3600). Please do not hesitate to call us if you have questions about your speaker system. We positively love this stuff.

You will find additional information, informative articles, manual updates and cool stuff to buy that has "Polk Audio" all over it by visiting www.polkaudio.com.

Attach your receipt here
and file for future reference.
It may be required
for warranty service.

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Polk/MOMO Subwoofer Specifications

THIELE / SMALL PARAMETERS

	MM104	MM124
Driver Complement	10"	12"
Nominal Impedance	4 Ohms	4 Ohms
Frequency response	20 – 200 Hz	20 – 200 Hz
Fs (Hz)	32 Hz	27.5 Hz
Re	4.0 Ohms	3.8 Ohms
Le	2.17 mH	1.92 mH
Qms	11.83	13.06
Qes	0.486	0.476
Qts	0.467	0.46
Sd	346 sq. cm / 53.63 sq. in.	511 sq. cm / 79.21 sq. in.
Vas (cubic feet)	1.12 cu. ft.	2.865 cu. ft.
Vas (liters)	31.79 liters	81.12 liters
Power Handling (watts peak)	1000 Watts	1000 Watts
Sensitivity (SPL at 1 watt / 1 meter)	85 dB	87 dB
Xmax	1 in. 25 mm.	1 in. 25 mm.
Voicecoil Diameter	2.0 inches	2.0 inches
Mounting depth top mount	5.25 inches 134 mm	6 inches 153 mm
Mounting depth bottom mount	5.625 inches 143 mm	6.50 inches 165 mm
Mounting diameter	9.22 inches 234 mm	11.125 inches 283 mm

Polk Audio's Customer Service Department is available from 9am—6pm, EST, Monday through Friday, at 800-377-7655. Please do not hesitate to call us if you have questions about your speaker system.

Polk/MOMO Series 3 Year Warranty

Polk Audio, Inc., warrants to the original retail purchaser only. This warranty will terminate automatically prior to its stated expiration if the original retail purchaser sells or transfers the Product to any other party.

Polk Audio, Inc., warrants, to the original retail purchaser only, that the LOUDSPEAKER(S), PASSIVE CROSSOVER COMPONENT(S) and ENCLOSURE on this Polk Audio Loudspeaker Product will be free from defects in material and workmanship for a period of three (3) years from the date of original retail purchase from a Polk Audio Authorized Dealer.

Furthermore, Polk Audio, Inc., warrants, to the original retail purchaser only, that any AMPLIFIER OR OTHER ELECTRONIC COMPONENT that may be included in this Polk Audio Loudspeaker Product will be free from defects in material and workmanship for a period of three (3) years from the date of original retail purchase from a Polk Audio Authorized Dealer.

To allow Polk Audio to offer the best possible warranty service, please fill out the Product Registration Card(s) and send it to the Factory at the address provided on the Product Registration Card(s) within ten (10) days of the date of original purchase.

Defective Products must be shipped, together with proof of purchase, prepaid insured to the Polk Audio Authorized Dealer from whom you purchased the Product, or to the Factory at 2550 Britannia Boulevard, Suite D, San Diego, California 92154. Products must be shipped in the original shipping container or its equivalent; in any case the risk of loss or damage in transit is to be borne by you. If upon examination at the Factory or Polk Audio Authorized Dealer it is determined that the unit was defective in materials or workmanship at any time during this Warranty period, Polk Audio or the Polk Audio Authorized Dealer will, at its option, repair or replace this Product at no additional charge, except as set forth below. All replaced parts and Products become the property of Polk Audio. Products replaced or repaired under this warranty will be returned to you, within a reasonable time, freight prepaid.

This warranty does not include service or parts to repair damage caused by accident, disaster, misuse, abuse, negligence, inadequate packing or shipping procedures, commercial use, voltage inputs in excess of the rated maximum of the unit, cosmetic appearance of cabinetry not directly attributable to defect in materials or workmanship, or service, repair, or modification of the Product which has not been authorized or approved by Polk Audio. This warranty shall terminate if the Serial number on the Product has been removed, tampered with or defaced.

This warranty is in lieu of all other expressed Warranties. If this Product is defective in materials or workmanship as warranted above, your sole remedy shall be repair or replacement as provided above. In no event will Polk Audio, Inc. be liable to you for any incidental or consequential damages arising out of the use or inability to use the Product, even if Polk Audio, Inc. or a Polk Audio Authorized Dealer has been advised of the possibility of such damages, or for any claim by any other party. Some states do not allow the exclusion or limitation of consequential damages, so the above limitation and exclusion may not apply to you. All implied warranties on this Product are limited to the duration of this expressed Warranty. Some states do not allow limitation on how long an implied Warranty lasts, so the above limitations may not apply to you. This Warranty gives you specific legal rights, and you also may have other rights which vary from state to state.

This Warranty applies only to Products purchased in the United States of America, its possessions, and U.S. and NATO armed forces exchanges and audio clubs.

The Warranty terms and conditions applicable to Products purchased in other countries are available from the Polk Audio Authorized Distributors in such countries.

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http://www.polkaudio.com
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